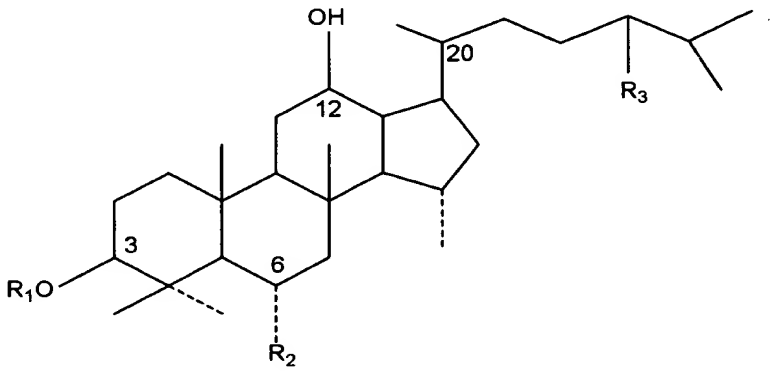
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A sapogenin according to the formula:



wherein R1 is H, ~~glc or glc$^{1-2}$ glc,~~ R2 is H or OH, R3 is H or OH; and when R1, R2 and R3 are H, there are double bonds at positions 20(21) and 24(25); and when R1 is H, R2 is OH and R3 is OH, there are double bonds at positions 20(22) and 25(26); ~~and when R1 is H, R2 is OH and R3 is H, there are double bonds at positions 20(22) and 24(25); and when R1 is glc, R2 is H and R3 is H, there are double bonds at positions 20(21) and 24(25); and when R1 is glc$^{1-2}$glc, R2 is H and R3 is H, there are double bonds at positions 20(22) and 24(25);~~ and pharmaceutically acceptable compositions incorporating said sapogenins.

2. A sapogenin as claimed in claim 1 wherein R1, R2 and R3 are H, and there are double bonds at 20(21) and 24(25).

3. A sapogenin as claimed in claim 1 wherein R1 is H, R2 and R3 are OH, and there are double bonds at 20(22) and 25(26).

4. (Currently cancelled).

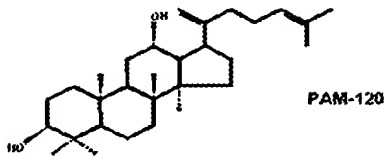
5. (Currently cancelled).

6. (Currently cancelled).

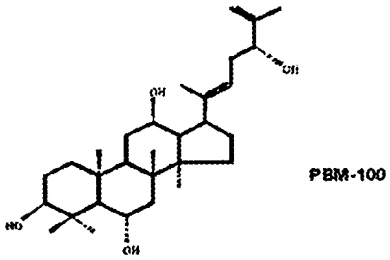
7. (Currently cancelled)

8. (Currently cancelled)

9. A sapogenin according to the formula:



10. A sapogenin according to the formula:



11. (Currently cancelled)

12. (Currently cancelled)

13. (Currently cancelled)

14. (Currently amended) A method of treating cancer in human beings or other animals suffering from cancer comprising administering to said human beings or other animals a therapeutically effective amount of a the sapogenin ~~composition comprising one or more of PAM-120, PBM-100 and PBM-110~~ as claimed in claim 1.

15. (Currently cancelled)

16. (Currently amended) The method of treating cancer as claimed in claim 14 comprising administering to said human beings or other animals a pharmaceutically effective amount of ~~PAM-120, PAM-100 and PBM-110~~ the sapogenin as claimed in claim 1, with or without one or more pharmaceutically acceptable carriers, and with one or more chemotherapeutic agents.

17. (Currently cancelled)

18. (Currently cancelled).

19. (Currently cancelled)

20. (Currently cancelled)

21. (Currently cancelled)

22. (Currently cancelled)

23. (Currently cancelled)

24. (Currently cancelled)

25. (Previously cancelled)

26. (Previously cancelled)

27. (Previously cancelled)

28. (Previously cancelled)

29. (Previously cancelled)

30. (Previously cancelled)

31. (Previously cancelled)

32. (Previously cancelled)

33. (New) The sapogenin as claimed in claim 1, wherein the sapogenin is incorporated into a food, a health food, a nutritional product, a natural product, or an alternative medicine product.

34. (New) The sapogenin as claimed in claim 1, wherein the sapogenin comprises an orally administrable form, an injectable form, or a topically applicable form.

35. (New) The sapogenin as claimed in claim 34, wherein the orally administrable form is selected from a group consisting of a tablet, a powder, a suspension, an emulsion, a capsule, a granule, a troche, a pill, a liquid, a spirit, a syrup, and a lemonade.

36. (New) The sapogenin as claimed in claim 34, wherein the injectable form is selected from the group consisting of a liquid, a suspension, and a solution.

37. (New) The sapogenin as claimed in claim 34, wherein the topically applicable form is selected from a group consisting of a drop, a paste, an ointment, a liquid, a powder, a plaster, a suppository, an aerosol, a liniment, a lotion, an enema, and an emulsion.

38. (New) A method of treating lung cancer cells in a human being or other animal comprising administering to said human being or said other animal a therapeutically effective amount of one or more of the sapogenins as claimed in claim 1, with or without one or more other anti-cancer treatments, to kill the lung cancer cells, induce apoptosis in the lung cancer cells, inhibit multiplication of the lung cancer cells, or any combination thereof.

39. (New) The method of treating lung cancer cells as claimed in claim 38, wherein the method comprises administering a therapeutically effective amount of PAM-120 to said human being or said other animal.

40. (New) The method of treating lung cancer cells as claimed in claim 38, wherein the method comprises administering a therapeutically effective amount of PBM-100 to said human being or said other animal.

41. (New) A method of treating sarcoma tumor cells in a human being or other animal comprising administering to said human being or said other animal a therapeutically effective amount of one or more of the sapogenins as claimed in claim 1, with or without one or more other anti-cancer treatments, to kill the sarcoma tumor cells, induce apoptosis in the sarcoma tumor cells, inhibit multiplication of the sarcoma tumor cells, or any combination thereof.

42. (New) The method of treating sarcoma tumor cells as claimed in claim 41, wherein the method comprises administering a therapeutically effective amount of PAM-120 to said human being or said other animal.

43. (New) The method of treating sarcoma tumor cells as claimed in claim 41, wherein the method comprises administering a therapeutically effective amount of PBM-100 to said human being or said other animal.

44. (New) A method of prolonging life span of a human being or other animal suffering from sarcoma comprising administering a therapeutically effective amount of PAM-120, with or without one or more other anti-cancer treatments, to said human being or other said animal.

45. (New) A method of treating melanoma cells in a human being or other animal comprising administering to said human being or said other animal a therapeutically effective amount of one or more of the sapogenins as claimed in claim 1, with or without one or more other anti-cancer treatments, to kill the melanoma cells, induce apoptosis in the melanoma cells, inhibit multiplication of the melanoma cells, or any combination thereof.

46. (New) The method of treating melanoma cells as claimed in claim 45, wherein the method comprises administering a therapeutically effective amount of PAM-120 to said human being or said other animal.

47. (New) The method of treating melanoma cells as claimed in claim 45, wherein the method comprises administering a therapeutically effective amount of PBM-100 to said human being or said other animal.

48. (New) A method of treating human breast cancer cells in a human being or other animal comprising administering to said human being or said other animal a

therapeutically effective amount of one or more of the sapogenins as claimed in claim 1, with or without one or more other anti-cancer treatments, to kill the breast cancer cells, induce apoptosis in the breast cancer cells, inhibit multiplication of the breast cancer cells, or any combination thereof.

49. (New) The method of treating human breast cancer cells as claimed in claim 48, wherein the human breast cancer cells are multi-drug resistant.

50. (New) The method of treating human breast cancer cells as claimed in claim 48, wherein the method comprises administering to said human being or said other animal a therapeutically effective amount of PAM-120.

51. (New) The method of treating human breast cancer cells as claimed in claim 48, wherein the method comprises administering to said human being or said other animal a therapeutically effective amount of PBM-100.

52. (New) The method of treating human breast cancer cells as claimed in claim 48, wherein the method comprises administering to said human being or said other animal a therapeutically effective amount of PAM-120 with a therapeutically effect amount of cisplatin.

53. (New) The method of treating human breast cancer cells as claimed in claim 53, wherein the human breast cancer cells are multi-drug resistant.

54. (New) The method of treating human breast cancer cells as claimed in claim 48, wherein the method comprises administering to said human being or said other animal a therapeutically effective amount of PAM-120 with a therapeutically effective amount of taxol.

55. (New) The method of treating human breast cancer cells as claimed in claim 54, wherein the human breast cancer cells are multi-drug resistant.

56. (New) A method of treating human malignant glioma cells in a human being or other animal comprising administering to said human being or said other animal a therapeutically effective amount of the sapogenin as claimed in claim 2, with or without one or more other anti-cancer treatments, to kill the malignant glioma cells,

induce apoptosis in the malignant glioma cells, inhibit multiplication of the malignant glioma cells, or any combination thereof.

57. (New) The method as claimed in claim 38, wherein one or more of PAM-120 and PBM-100 are administered to said human being or said other animal in a dosage between 5 micrograms to 50 grams per kg body weight per day.

58. (New) The method as claimed in claim 57, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 50 micrograms to 5 grams per kg body weight per day.

59. (New) The method as claimed in claim 41, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 5 micrograms to 50 grams per kg body weight per day.

60. (New) The method as claimed in claim 59, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 50 micrograms to 5 grams per kg body weight per day.

61. (New) The method as claimed in claim 44, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 5 micrograms to 50 grams per kg body weight per day.

62. (New) The method as claimed in claim 61, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 50 micrograms to 5 grams per kg body weight per day.

63. (New) The method as claimed in claim 45, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 5 micrograms to 50 grams per kg body weight per day.

64. (New) The method as claimed in claim 63, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 50 micrograms to 5 grams per kg body weight per day.

65. (New) The method as claimed in claim 48, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 5 micrograms to 50 grams per kg body weight per day.

66. (New) The method as claimed in claim 65, wherein one or more of PAM-120 and PBM-100 are administered to said human being or other animal in a dosage between 50 micrograms to 5 grams per kg body weight per day.

67. (New) The method as claimed in claim 56, wherein PAM-120 is administered to said human being or other animal in a dosage between 5 micrograms to 50 grams per kg body weight per day.

68. (New) The method as claimed in claim 67, wherein PAM-120 is administered to said human being or other animal in a dosage between 50 micrograms to 5 grams per kg body weight per day.